

# MLFB-Ordering data

6SL3210-1KE14-3UF2



Figure similar

Client order no. : Order no. : Offer no. :

Item no.: Consignment no. : Project :

Remarks :					
Rated data			General tech. specifications		
Input			Power factor λ	0.70 0.85	
Number of phases	3 AC		Offset factor cos φ	0.95	
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.97	
Line frequency	47 63 Hz		Sound pressure level (1m)	49 dB	
Rated current (LO)	5.50 A		Power loss	0.06 kW	
Rated current (HO)	4.50 A		Filter class (integrated)	Unfiltered	
Output			Δmhier	nt conditions	
Number of phases	3 AC		Ambier	it conditions	
Rated voltage	400V IEC	480V NEC	Cooling	Air cooling using an integrated fan	
Rated power (LO)	1.50 kW	2.00 hp	Carlina i an i an a	0.005 31 (0.477 (31)	
Rated power (HO)	1.10 kW	1.50 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated current (LO)	4.10 A		Installation altitude	1000 m (3280.84 ft)	
Rated current (HO)	3.10 A		Ambient temperature		
Rated current (IN)	4.30 A		Operation	-10 40 °C (14 104 °F)	
Max. output current	6.20 A		Transport	-40 70 °C (-40 158 °F)	
·			Storage	-40 70 °C (-40 158 °F)	
Pulse frequency	4 kHz		Relative humidity		
Output frequency for vector control	0 240 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Output frequency for V/f control	0 550 Hz			5 .	

# Overload capability

## Low Overload (LO)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

#### High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

Closed-loop control techniques			
V/f linear / square-law / parameterizable	Yes		
V/f with flux current control (FCC)	Yes		
V/f ECO linear / square-law	Yes		
Sensorless vector control	Yes		
Vector control, with sensor	No		
Encoderless torque control	No		
Torque control, with encoder	No		



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•	23210 IK2113012		Figure similar	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSAA	Connections		
Net weight	1.40 kg (3.09 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	173 mm (6.81 in)	Line side		
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Standard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	Version	Plug-in screw terminals	
Fail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	Off flousing with ivit screw	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	100 m (328.08 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	
Switching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			

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# PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^{\circ}\text{C}$ 



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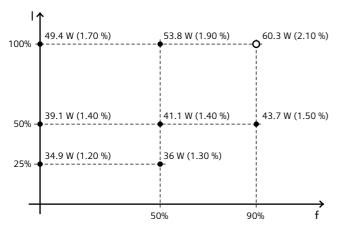
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# Salar Salar

Figure similar

# Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	29.50 %



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

\*converted values